

SAFETY DATA SHEET

SECTION I. ----- CHEMICAL PRODUCT & COMPANY INFORMATION -----

NAME: SODIUM BROMATE

IDENTIFIED USES: LABORATORY CHEMICALS, MANUFACTURE OF SUBSTANCES

DISTRIBUTED BY:

DASTECH INTERNATIONAL, INC.

10 CUTTER MILL ROAD

GREAT NECK, NY 11021

IN CASE OF EMERGENCY,

PLEASE CONTACT **CHEMTREC** AT:

800-424-9300

SECTION II. ----- HAZARDS IDENTIFICATION -----

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

OXIDIZING SOLIDS (CATEGORY 2), H272

ACUTE TOXICITY, ORAL (CATEGORY 4), H302

SKIN IRRITATION (CATEGORY 2), H315

EYE IRRITATION (CATEGORY 2A), H319

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3), RESPIRATORY SYSTEM, H335



PICTOGRAM

SIGNAL WORD DANGER

HAZARD STATEMENT(S)

H272 MAY INTENSIFY FIRE; OXIDISER.

H302 HARMFUL IF SWALLOWED.

H315 CAUSES SKIN IRRITATION.

H319 CAUSES SERIOUS EYE IRRITATION.

H335 MAY CAUSE RESPIRATORY IRRITATION.

PRECAUTIONARY STATEMENT(S)

P210 KEEP AWAY FROM HEAT.

P220 KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE MATERIALS.

P221 TAKE ANY PRECAUTION TO AVOID MIXING WITH COMBUSTIBLES.

P261 AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY.

P264 WASH SKIN THOROUGHLY AFTER HANDLING.

P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION.

P301 + P312 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/ PHYSICIAN IF YOU FEEL UNWELL.

P302 + P352 IF ON SKIN: WASH WITH PLenty OF SOAP AND WATER.

P304 + P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.

P305 + P351 + P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P312 CALL A POISON CENTER OR DOCTOR/ PHYSICIAN IF YOU FEEL UNWELL.

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P321 SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THIS LABEL).
P330 RINSE MOUTH.
P332 + P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ ATTENTION.
P337 + P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ ATTENTION.
P362 TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.
P370 + P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-RESISTANT FOAM FOR EXTINCTION.
P403 + P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.
P405 STORE LOCKED UP.
P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

SECTION III. -----COMPOSITION/INFORMATION ON INGREDIENTS -----**SUBSTANCES**

FORMULA:	BRNAO3
MOLECULAR WEIGHT:	150.89 G/MOL
CAS-NO.:	7789-38-0
EC-NO.:	232-160-4

COMPONENT	CLASSIFICATION	CONCENTRATION
SODIUM BROMATE	OX. SOL. 2; ACUTE TOX. 4; SKIN IRRIT. 2; EYE IRRIT. 2A; STOT SE 3; H272, H302, H315, H319, H335	-

SECTION IV. ----- FIRST-AID MEASURES -----**DESCRIPTION OF FIRST AID MEASURES****GENERAL ADVICE:**

CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.
MOVE OUT OF DANGEROUS AREA.

IF INHALED:

IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.

IN CASE OF SKIN CONTACT:

WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

IN CASE OF EYE CONTACT:

RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

IF SWALLOWED:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION II) AND/OR IN SECTION XI.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
NO DATA AVAILABLE

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SECTION V. ----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA:

USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

HYDROGEN BROMIDE GAS, SODIUM OXIDES

ADVICE FOR FIREFIGHTERS:

WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.

FURTHER INFORMATION:

USE WATER SPRAY TO COOL UNOPENED CONTAINERS.

SECTION VI. ----- ACCIDENTAL RELEASE MEASURES -----

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST.

FOR PERSONAL PROTECTION SEE SECTION VIII.

ENVIRONMENTAL PRECAUTIONS: DO NOT LET PRODUCT ENTER DRAINS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

SWEEP UP AND SHOVEL. CONTAIN SPILLAGE, AND THEN COLLECT WITH AN ELECTRICALLY PROTECTED VACUUM CLEANER OR BY WET- BRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

FOR DISPOSAL SEE SECTION 13.

SECTION VII. ----- HANDLING AND STORAGE -----

PRECAUTIONS FOR SAFE HANDLING:

AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.

PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION. NORMAL MEASURES FOR PREVENTIVE FIRE PROTECTION.

FOR PRECAUTIONS SEE SECTION II

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

SECTION VIII. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

USE ONLY IN A CHEMICAL FUME HOOD. SAFETY SHOWER AND EYE BATH.

AVOID BREATHING DUST. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING.

IRRITANT. KEEP TIGHTLY CLOSED.

KEEP AWAY FROM COMBUSTIBLE MATERIALS, HEAT, SPARKS, AND OPEN FLAME.

STORE IN A COOL DRY PLACE.

SECTION IX. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE FORM: CRYSTALLINE

COLOUR: COLOURLESS

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ODOUR: NO DATA AVAILABLE
ODOUR: THRESHOLD NO DATA AVAILABLE
PH: 5.0 - 9.0 AT 50 G/L AT 25 °C (77 °F)
MELTING POINT/FREEZING POINT: NO DATA AVAILABLE
INITIAL BOILING POINT AND BOILING RANGE: NO DATA AVAILABLE
FLASH POINT: NOT APPLICABLE
EVAPOURATION RATE: NO DATA AVAILABLE
FLAMMABILITY (SOLID, GAS): NO DATA AVAILABLE
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: NO DATA AVAILABLE
VAPOUR PRESSURE: NO DATA AVAILABLE
VAPOUR DENSITY: NO DATA AVAILABLE
RELATIVE DENSITY: 3.339 G/CM3 AT 25 °C (77 °F)
WATER SOLUBILITY: NO DATA AVAILABLE
PARTITION COEFFICIENT: N- OCTANOL/WATER: NO DATA AVAILABLE
AUTO-IGNITION TEMPERATURE: NO DATA AVAILABLE
DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE
VISCOSITY: NO DATA AVAILABLE
EXPLOSIVE PROPERTIES: NO DATA AVAILABLE
OXIDIZING PROPERTIES: THE SUBSTANCE OR MIXTURE IS CLASSIFIED AS OXIDIZING WITH THE CATEGORY 2.
OTHER SAFETY INFORMATION: NO DATA AVAILABLE

SECTION X. ----- STABILITY AND REACTIVITY -----

REACTIVITY: NO DATA AVAILABLE
CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS: NO DATA AVAILABLE
CONDITIONS TO AVOID: NO DATA AVAILABLE
INCOMPATIBLE MATERIALS: STRONG REDUCING AGENTS, POWDERED METALS, ALCOHOLS, STRONG ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS:
OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE
IN THE EVENT OF FIRE: SEE SECTION V

SECTION XI. ----- TOXICOLOGICAL INFORMATION -----

INFORMATION ON TOXICOLOGICAL EFFECTS
ACUTE TOXICITY:
DERMAL: NO DATA AVAILABLE
LD50 INTRAPERITONEAL - MOUSE - 140 MG/KG
SKIN CORROSION/IRRITATION: NO DATA AVAILABLE
SERIOUS EYE DAMAGE/EYE IRRITATION: NO DATA AVAILABLE
RESPIRATORY OR SKIN SENSITISATION: NO DATA AVAILABLE
GERM CELL MUTAGENICITY: NO DATA AVAILABLE
CARCINOGENICITY
IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.
ACGIH: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.
NTP: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

DASTECH INTERNATIONAL, INC.

10 Cutter Mill Rd. Great Neck, N.Y. 11021
Tel (516) 466-7676 Fax (516) 466-7699
e-mail info@dastech.com

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OSHA: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

REPRODUCTIVE TOXICITY:

NO DATA AVAILABLE NO DATA AVAILABLE

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

INHALATION - MAY CAUSE RESPIRATORY IRRITATION.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: NO DATA AVAILABLE

ASPIRATION HAZARD: NO DATA AVAILABLE

ADDITIONAL INFORMATION:

RTECS: EF8750000

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

STOMACH - IRREGULARITIES - BASED ON HUMAN EVIDENCE

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ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION XII. ----- ECOLOGICAL INFORMATION -----

TOXICITY: NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITY: NO DATA AVAILABLE

BIOACCUMULATIVE POTENTIAL: NO DATA AVAILABLE

MOBILITY IN SOIL: NO DATA AVAILABLE

RESULTS OF PBT AND VPVB ASSESSMENT: PBT/VPVB ASSESSMENT NOT AVAILABLE AS

CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED

OTHER ADVERSE EFFECTS: NO DATA AVAILABLE

SECTION XIII. ----- DISPOSAL CONSIDERATIONS -----

WASTE TREATMENT METHODS

PRODUCT:

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE. OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.

CONTAMINATED PACKAGING:

DISPOSE OF AS UNUSED PRODUCT.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION XIV. ----- TRANSPORTATION INFORMATION -----

DOT (US):

UN NUMBER: 1494 CLASS: 5.1 PACKING GROUP: II

PROPER SHIPPING NAME: SODIUM BROMATE

MARINE POLLUTANT: NO

POISON INHALATION HAZARD: NO

IMDG:

UN NUMBER: 1494 CLASS: 5.1 PACKING GROUP: II EMS-NO: F-H, S-Q

PROPER SHIPPING NAME: SODIUM BROMATE MARINE POLLUTANT: NO

IATA

UN NUMBER: 1494 CLASS: 5.1 PACKING GROUP: II

PROPER SHIPPING NAME: SODIUM BROMATE

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DASTECH INTERNATIONAL, INC.

*10 Cutter Mill Rd. Great Neck, N.Y. 11021
Tel (516) 466-7676 Fax (516) 466-7699
e-mail info@dastech.com*

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SECTION XV. ----- REGULATORY INFORMATION -----

SARA 302 COMPONENTS

SARA 302: NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

SARA 313 COMPONENTS

SARA 313: THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

SARA 311/312 HAZARDS

REACTIVITY HAZARD, ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS:

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS:

SODIUM BROMATE CAS-NO.: 7789-38-0

REVISION DATE: 2007-03-01

NEW JERSEY RIGHT TO KNOW COMPONENTS

SODIUM BROMATE CAS-NO.: 7789-38-0

REVISION DATE: 2007-03-01

CALIFORNIA PROP. 65 COMPONENTS:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

SECTION XVI. ----- OTHER INFORMATION -----

HMIS RATING

HEALTH HAZARD: 2

CHRONIC HEALTH HAZARD: * FLAMMABILITY: 0

PHYSICAL HAZARD 2

NFPA RATING

HEALTH HAZARD: 2

FIRE HAZARD: 0

REACTIVITY HAZARD: 2

SPECIAL HAZARD I: OX

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. DASTECH INTERNATIONAL, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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